7:30 A.M.–8:30 A.M.   **Registration**

8:30 A.M.–10:40 A.M.
Invited Session 3

       Modeling Complex Data
       Chair: Timothy A. Green, Ph.D.

Spatial Analysis of Count Data	*Russell D. Wolfinger, Ph.D.*
Mixed-Effects Modeling of Longitudinal Nominal Outcomes	*Donald Hedeker, Ph.D.*
Statistical Methods for Assessing Familial Aggregation of Disease	*Nan M. Laird, Ph.D.*

10:40 A.M.-11:00 A.M.   Break

11:00 A.M.–12:30 P.M.
Contributed Session 3

Dunwoody A   **Massive Data Sets**
       Chair: Doug P. Landsittel, Ph.D.

Using Large Datasets from Multiple Sources: Achieving Flexibility, Performance, and Data Quality, or: Data Encounters of the Third Normal Kind	*Mary E. Hewitt*
An Environmental Information Management System Integrating Textual, Graphical, and Geographical Interfaces	*Dana Abouelnasr, Ph.D.*
Venue-Based Sampling of Young Men Who Have Sex With Men (YMSM): A Practical Approach to Collecting Representative Data on a Hard to Reach Population	*Lillian S. Lin, Ph.D.*
Disease Severity Modeled on Two Ordinal Indices in a Prospective Study of Vulvovaginal Candidiasis among Women with or at Increased Risk for HIV	*Charles M. Heilig, Ph.D.*

Dunwoody B   **Mixed Models**
       Chair: Shailen N. Banerjee, Ph.D.

Evaluation of Variance Components in an MCF-7 Cell Culture Assay (E-SCREEN) Using Generalized Linear Mixed Models (GLMMs) and a Score Test	*B. Rey de Castro, Sc.D.*
Nonparametric Functions and Random Effects: A Generalised Additive Mixed Models Approach	*Marc Saez, Ph.D.*

11:00 A.M.–12:30 P.M.
Contributed Session 3 Continued

	Estimating Correlation by Using General Linear Mixed Models: Correlation Between the Concentration of Blood and Semen HIV-1 RNA	*Hrishikesh Chakraborty, Dr.P.H.*
	Generalized Linear Additive Smooth Structures and Complicated Models for Large Scale Medical Data	*Brian D. Marx, Ph.D.*
Dunwoody C	**Generalized Linear Models** *Chair: William W. Thompson, Ph.D.*	
	Multiple Comparison with a Control in the Presence of Correlated Data	*Jean G. Orelien, M.S.*
	Impact of Ignoring Centers on Evaluating the Influence of Process Measures	*Laura P. Coombs, Ph.D.*
	Using 'Lowess' to Remove Systematic Trends from Contaminated Data Prior to Logistic Regression with Empirical Quantile-Categories: A Case Study Involving Esophageal Cancer	*Craig B. Borkowf, Ph.D.*
	Measuring Disease Progression with Clinical Risk Groups	*Jon Eisenhandler, Ph.D.*

12:30 P.M. – 2:00 P.M.
Poster Session 2

Pre-Function Area	Reliability of the Youth Risk Behavior Survey Questionnaire and Validity of Self-Reported Height and Weight Among High School Students	*Nancy D. Brener, Ph.D.*
	A Study of Item-Response Bias on the Aggressive Behavior Dimension of the Child Behavior Checklist Among a National Representative Sample of Hispanic and Non-Hispanic Youths	*Akihito Kamata*, Ph.D.
	Correlates of Hospital Length of Stay and Cost: Application of a Multivariate Model for Health Care Utilization and Cost	*Joseph C. Gardiner, Ph.D.*
	Analytic Methods for Community-Based Assessments	*Tim E. Aldrich, Ph.D., M.P.H.*
	Statistical Process Control	*Youjie Huang, M.D., Ph.D.*
	Serial Tracking of Outbreak Emergence	*Tim E. Aldrich, Ph.D., M.P.H.*
	Analyzing Gender Differences in In-Hospital Survival after Myocardial Infarction: The Importance of Considering Status at Admission,	

Severity and Missing Data	*Karla Nobrega, M.Sc.*
A Two-Sample Method for Analyzing Combined Samples of Correlated and Uncorrelated Data	*Stephen W. Looney, Ph.D.*
An Evaluation of Aberration Methods for Detecting Outbreaks in Public Health Surveillance Data	*Lori C. Hutwagner, M.S.*
Soap Operas, Syndicated Market Research Data Bases, and Public Health: Statistical Analysis of Audience Data For Health Communication Planning	*W.E. Pollard, Ph.D.*
Hotspotting a Graphics Object in SAS/AF Frame Entry	*Felicita David, M.S.*
Using Predictive Probabilities to Evaluate Lower-than-expected Accrual	*Maya Sternberg, Ph.D.*
Adjustments for Non-telephone Bias in the National Immunization Survey and Other RDD Surveys	*Martin R. Frankel, Ph.D.*
Configural Frequency Analysis - A Tool for the Exploration of Massive and Sparse Data Sets	*Alexander von Eye, Ph.D.*

**2:00 P.M.–3:30 P.M.
Invited Session 4**

Dunwoody A-C   **Methods for Missing Data**
Chair: John R. Odencrantz, Ph.D.

From Single-Race Reporting to Multiple-Race Reporting: Using Imputation Methods to Bridge the Transition	*Nathaniel Schenker, Ph.D.*
Two Topics in Survey Weighting Adjustments	*Roderick J. A. Little, Ph.D.*

3:30 P.M.–4:00 P.M.   Closing Remarks

Timothy A. Green, Ph.D.
Co-Chair, Symposium Planning Committee

Ralph B. D'Agostino
Editor, Statistics in Medicine
Department of Mathematics, Boston University